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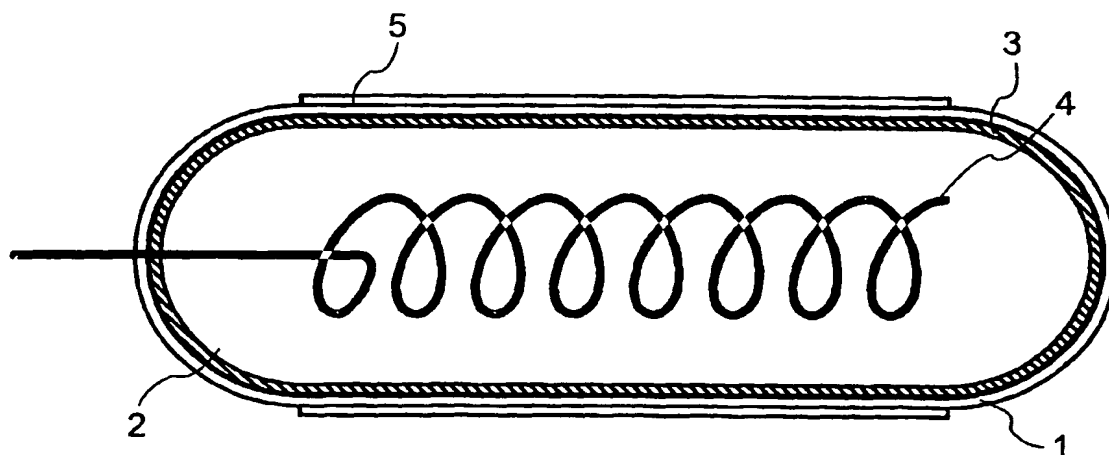
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(54) Title: DEVICE FOR GENERATING RADIATION



(57) Abstract: The invention relates to a device for generating radiation by means of excimer discharge, equipped with an at least partly UV-transparent discharge vessel (1), the discharge chamber (2) of which is filled with a gas filling, with means for igniting and maintaining an excimer discharge (4, 5) in the discharge chamber and with a coating (3) comprising a light-emitting compound. The light-emitting compound has the following composition: $(Ca_{1-x-2y}Sr_x)Li_2Si_{1-2y}Ge_2O_4:Ln_yM_y$, wherein Ln is a cation selected from the group Ce^{3+} , Pr^{3+} , Sm^{3+} , Eu^{3+} , Gd^{3+} , Tb^{3+} , Dy^{3+} , Er^{3+} , Tm^{3+} and Yb^{3+} , and M is a cation selected from the group Na^+ , K^+ and Rb^+ , $0 \leq x \leq 0.1$, $0.001 \leq y \leq 0.2$ and $0 \leq z \leq 1$. The coating (3) preferably comprises $Ca_{1-2y}Li_2SiO_4:Pr_yNa_y$ with $0.001 \leq y \leq 0.2$. A device with a coating (3) comprising $Ca_{1-2y}Li_2SiO_4:Pr_yNa_y$ with $0.001 \leq y \leq 0.2$ may be used for disinfection purposes.